

WHAT IS CLAIMED IS:

1. A heat exchanger provided with a plurality of tubes arranged in parallel with each other and sheet-like fins attached to these so as to bridge the intervals between facing tubes and performing heat exchange between a first fluid flowing through the inside of the tubes and a second fluid flowing in contact with the outer surfaces of the tubes and the fins, wherein meandering projections are formed at said fins.

2. A heat exchanger as set forth in claim 1, wherein said projections formed at said fins meander centered about a basic direction of flow of said second fluid so as to be directed toward said tubes.

3. A heat exchanger as set forth in claim 1, wherein top surfaces of the meandering projections of the fins are formed with louver-shaped pieces cut and raised from them disturbing the flow of said second fluid.

4. A heat exchanger as set forth in claim 1, wherein top surfaces of the meandering projections of the fins are formed with relief shapes disturbing the flow of said second fluid.

5. A heat exchanger as set forth in claim 4, wherein said relief shapes formed on the top surfaces of the meandering projections of the fins are arranged along wave shapes disposed in the longitudinal directions of said tubes about a basic direction of flow of said second fluid.

6. A heat exchanger as set forth in claim 1, wherein said fins are corrugated fins basically bent into wave shapes between facing tubes.

7. A heat exchanger as set forth in claim 1, wherein said fins are plate fins of basically plate shapes connecting the plurality of said tubes.

8. A heat exchanger as set forth in claim 1, wherein said tubes have outer surfaces with flat sectional shapes.

9. A heat exchanger as set forth in claim 1,

wherein said tubes have outer surfaces with wedge-shaped sectional shapes.

10. A heat exchanger as set forth in claim 8, wherein said tubes form pluralities of fluid passages.

11. A heat exchanger as set forth in claim 8, wherein said tubes form single fluid passages.

12. A heat exchanger as set forth in claim 9, wherein said tubes form pluralities of fluid passages.

13. A heat exchanger as set forth in claim 9, wherein said tubes form single fluid passages.

14. A heat exchanger as set forth in claim 1, wherein said tubes have outer surfaces with substantially circular sectional shapes.

15. A heat exchanger as set forth in claim 14, wherein a plurality of said tubes are arranged on an identical virtual plane and another plurality of said tubes are arranged on another virtual plane facing that plane.